TITLE: HIGH TEMPERATURE
SUPERCONDUCTING TUNABLE FILTERS
INVENTOR(S): Eden et al
U.S. Serial No.: Not yet assigned
Page: 1 of 7
Exp Mail label EV337192125US VARIABLE 50 VACUUM GAP BETWEEN HTS CAP PLATES (1-10 μ m TYP) FLOATING PLATE 30 ELEMENT OF VARIABLE CAPACITOR 9 40 **EQUIVALENT CIRCUIT** FIG. 1c FLOATING PLATE 30 ELEMENT OF VARIABLE CAPACITOR 65 HTS SUBSTRATE (e.g., MgO) -20 FLOATING PLATE 30 ELEMENT OF - VARIABLE CAPACITOR MOVABLE HTS SUBSTRATE (e.g., THINNED MgO) 25, (e.g., PIEZOELECTRIC ACTUATOR) TO VARY GAP BETWEEN FIXED & FLOATING CAPACITOR PLATES 70/ MECHANICAL DRIVER(s) 45 FIG. 1b FIG. 1a

TITLE: HIGH TEMPERATURE
SUPERCONDUCTING TUNABLE FILTERS
INVENTOR(S): Eden et al
U.S. Serial No.: Not yet assigned
Page: 2 of 7
Exp Mail label EV337192125US

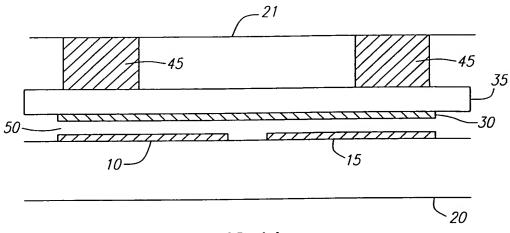


FIG. 1d

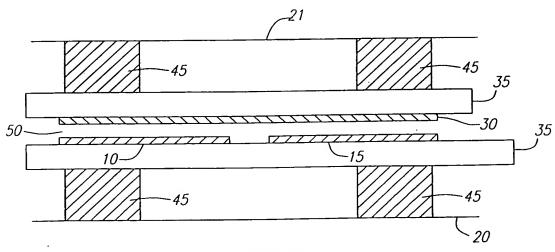


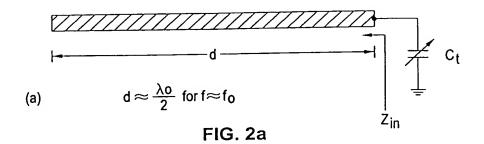
FIG. 1e

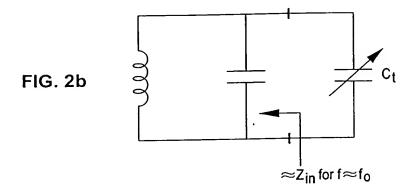
TITLE: HIGH TEMPERATURE SUPERCONDUCTING TUNABLE FILTERS INVENTOR(S): Eden et al

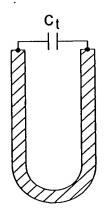
U.S. Serial No.:

Not yet assigned 3 of 7

Page: 3 of 7 Exp Mail label EV337192125US









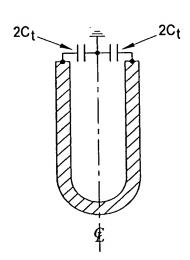
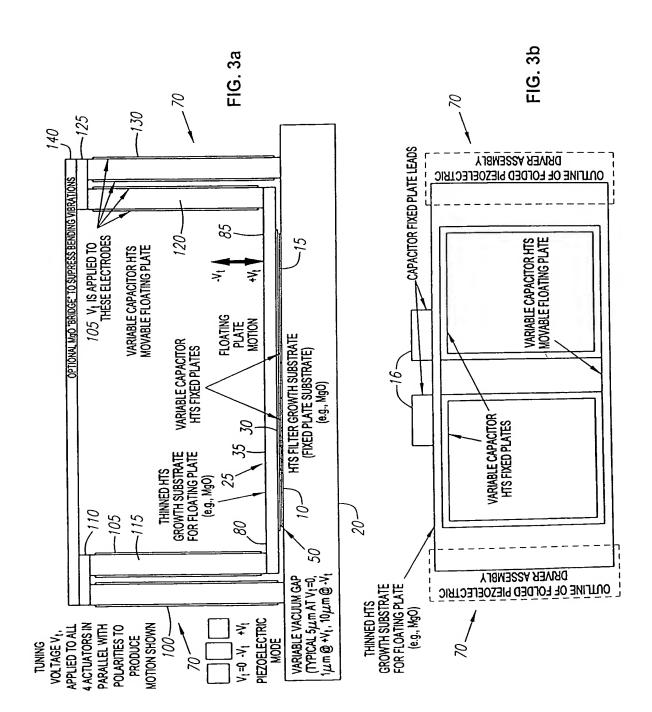


FIG. 2d

TITLE: HIGH TEMPERATURE
SUPERCONDUCTING TUNABLE FILTERS
INVENTOR(S): Eden et al
U.S. Serial No.: Not yet assigned

Not yet assigned 4 of 7

Exp Mail label EV337192125US



Signal Frequency, f(Hz)

FIG. 4

φ

ကု

တု

ATTENUATION (INSERTION LOSS) OF SIMPLE HTS TUNABLE FILTER (4B)

FIG. 5

SIGNAL FREQUENCY, f (Hz)

TITLE: HIGH TEMPERATURE SUPERCONDUCTING TUNABLE FILTERS INVENTOR(S): Eden et al

U.S. Serial No.: Not yet assigned Page: 6 of 7
Exp Mail label EV337192125US

TITLE: HIGH TEMPERATURE SUPERCONDUCTING TUNABLE FILTERS INVENTOR(S): Eden et al

U.S. Serial No.: Not yet assigned Page: 7 of 7
Exp Mail label EV337192125US

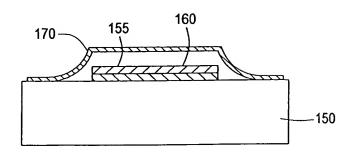


FIG. 6a

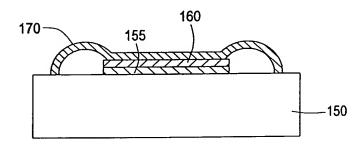


FIG. 6b

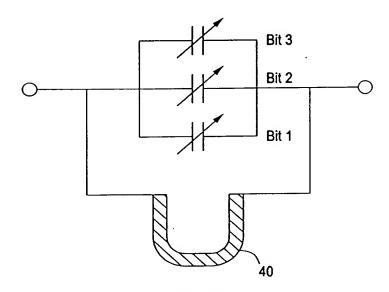


FIG. 6c